

Amendments to the Claims::

This listing replaces all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) **A An isolated** protein comprising the amino acid sequence of SEQ ID NO:4 or 5.
2. (currently amended) **A An isolated** protein which comprises an amino acid sequence having 60% or more homology to ~~in which one of several amino acids in~~ the amino acid sequence of SEQ ID NO:4 or 5, wherein said protein has testicular differentiation activity ~~have been replaced, deleted, and/or added, and which is functionally equivalent to the protein of claim 1.~~
3. (currently amended) **A An isolated** protein which is encoded by a DNA hybridizing under stringent conditions to the DNA comprising the nucleotide sequence of SEQ ID NO:1 or 3, ~~and which is functionally equivalent to the protein of claim 1~~ wherein said protein has testicular differentiation activity.

4. (withdrawn) A DNA encoding the protein of claim 1.
5. (withdrawn) A vector comprising the DNA of claim 4.
6. (withdrawn) A transformant comprising the DNA of claim 4 in an expressible manner.
7. (withdrawn) A method of producing a protein comprising the steps of culturing a transformant comprising DNA encoding the protein of claim 1 and then collecting the expressed protein from said transformant or the culture supernatant thereof.
8. (withdrawn) An antibody binding to the protein of claim 1.
9. (withdrawn) A DNA specifically hybridizing to a DNA comprising the nucleotide sequence of any one of SEQ ID NOs:1 to 3, and comprising at least 15 nucleotides.
10. (withdrawn) A DNA encoding the protein of claim 2.
11. (withdrawn) A DNA encoding the protein of claim 3.
12. (withdrawn) A method of producing a protein comprising the steps of culturing a transformant comprising DNA encoding the protein of claim 2 and then

collecting the expressed protein from said transformant or the culture supernatant thereof.

13. (withdrawn) A method of producing a protein comprising the steps of culturing a transformant comprising DNA encoding the protein of claim 3 and then collecting the expressed protein from said transformant or the culture supernatant thereof.

14. (withdrawn) An antibody binding to the protein of claim 2.

15. (withdrawn) An antibody binding to the protein of claim 3.

16. (new) The isolated protein of claim 2, which comprises an amino acid sequence having 80% or more homology to the amino acid sequence of SEQ ID NO:4 or 5.

17. (new) The isolated protein of claim 2, which comprises an amino acid sequence having 80% or more homology to the amino acid sequence of SEQ ID NO:4 or 5.
